

## HEAT EXCHANGER

### ABSTRACT

5       An improved heat exchanger, and, particularly, for an automotive vehicle, is disclosed. The heat exchanger typically includes at least one end tank; and a plurality of spaced apart metal tubes with fins between the spaced tubes. The heat exchanger may be single or multi-pass. In preferred  
10       embodiments, the heat exchanger is arranged to be single pass or two-pass and has tubes or tube arrangements to improve heat transfer efficiency.